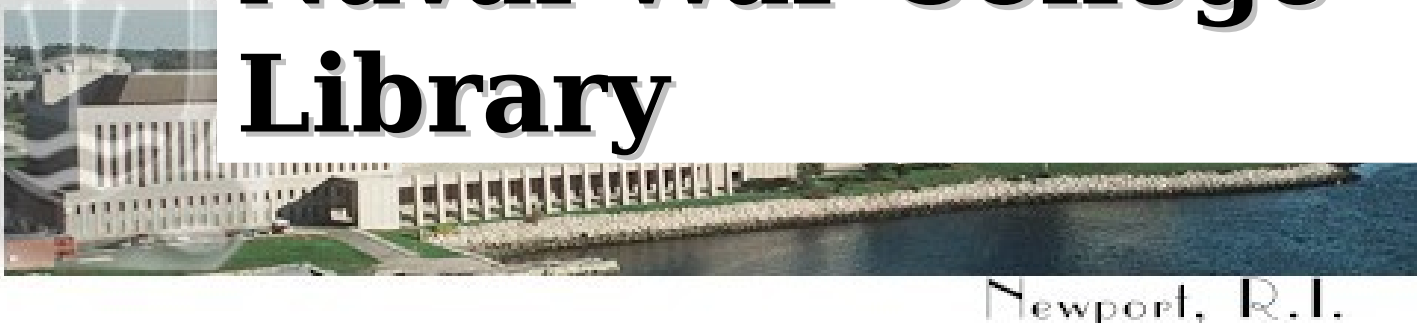
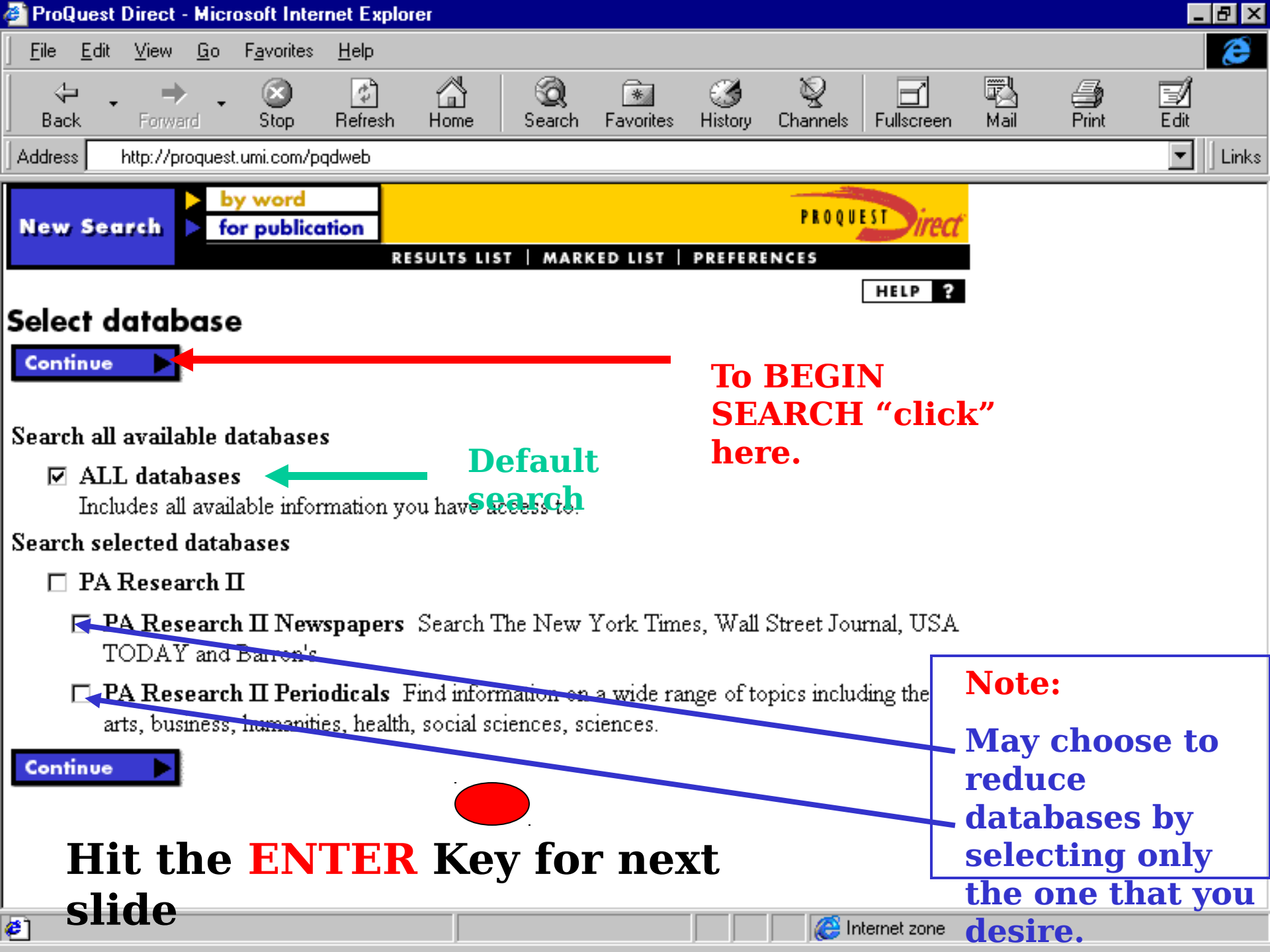
Naval War College Library

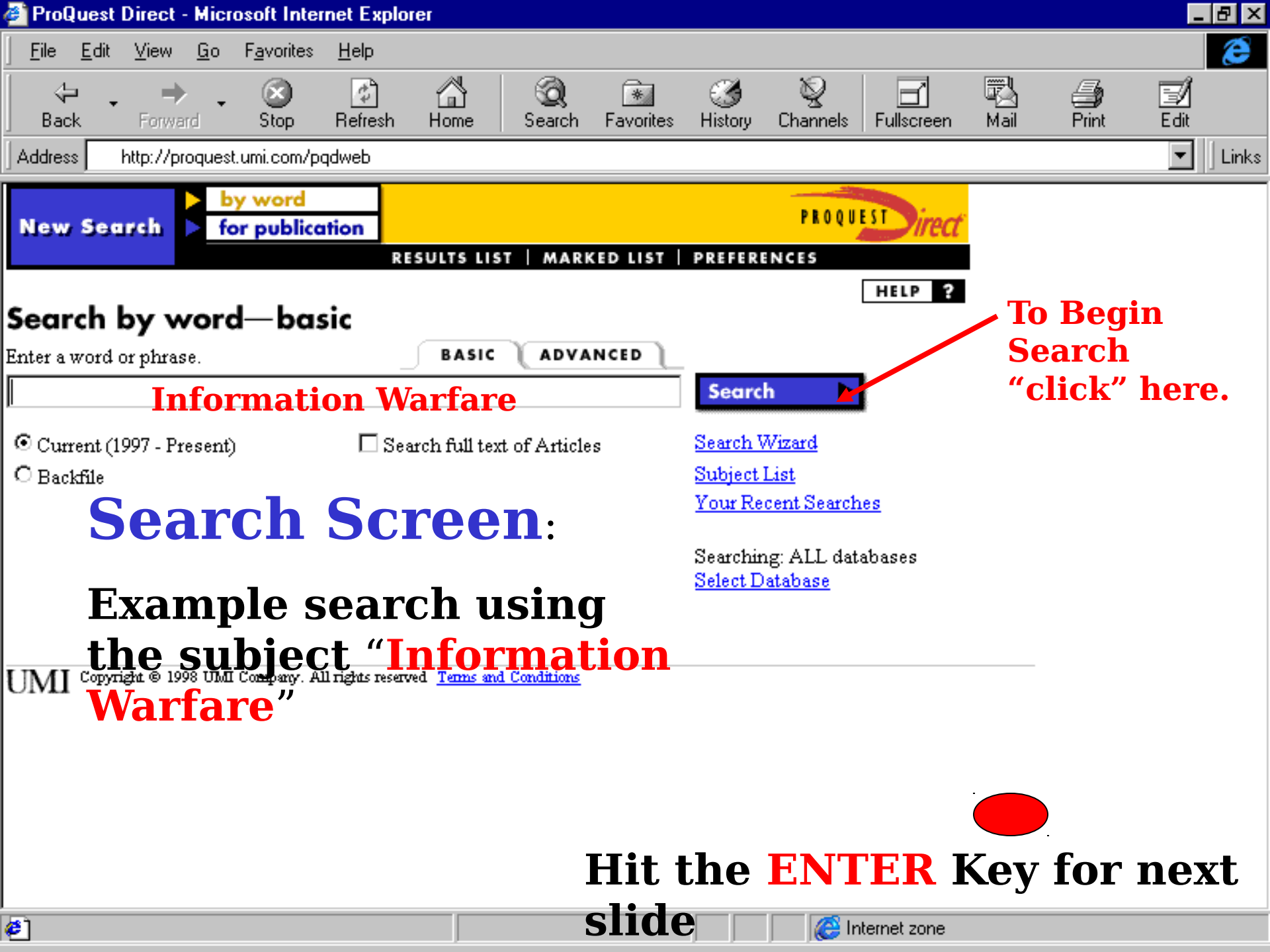


Introduction to ProQuest Direct Database

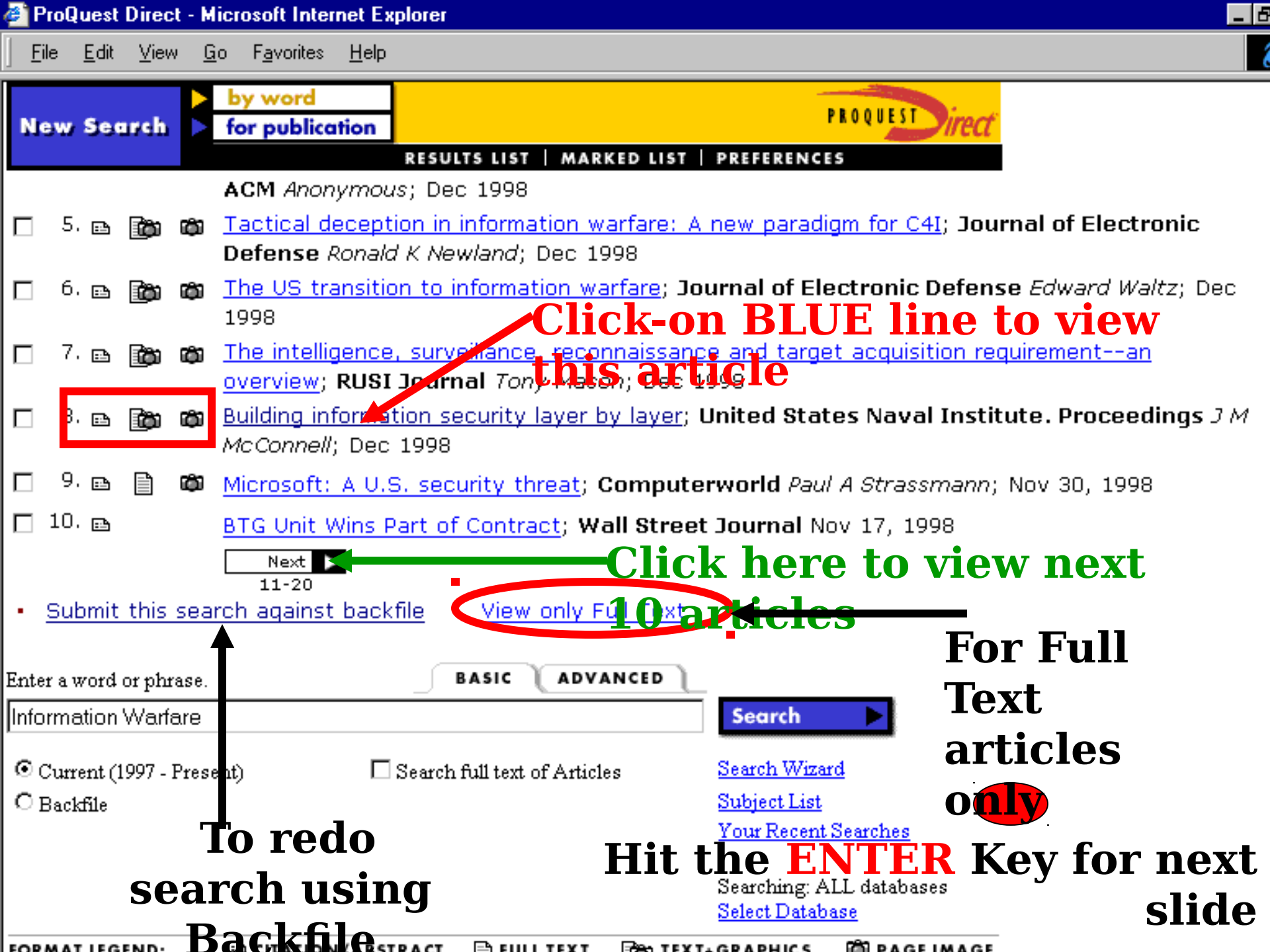
Hit the ENTER Key for next

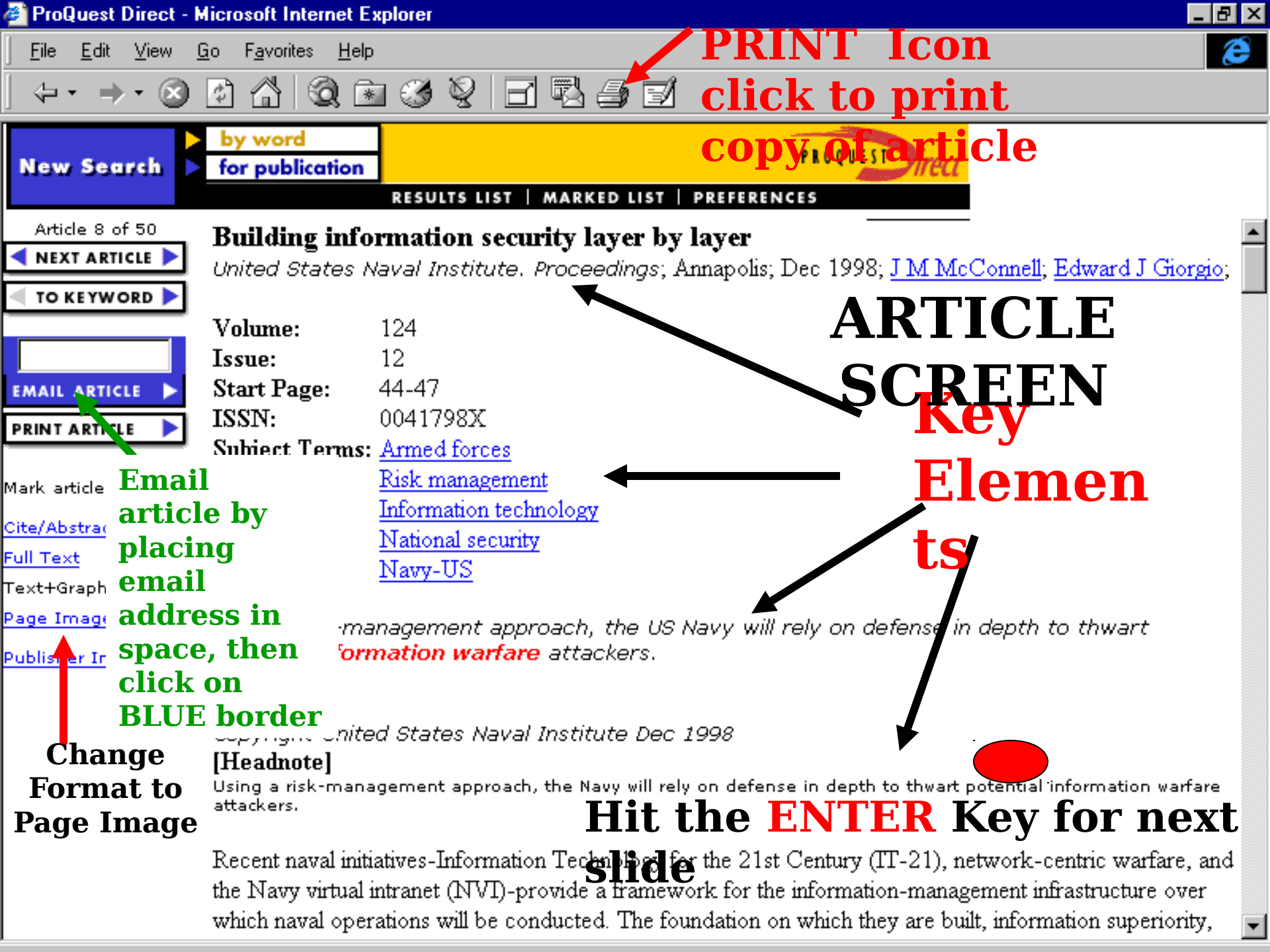
My Computer
Declassified Documen...
MERLN
Network Neighborhood
Early Bird News
NWC Library
Internet Explorer
Encyclopædia Britannica
ProQuest Direct
Recycle Bin
First Search
Statistical Universe
Acrobat Reader
Global Newsbank...
CIS Congressio...
Government Printing Offi...
Columbia Internation...
Lexis-Nexis Universe
FOR: ProQuest Direct, "click on"
this icon
Naval War College
Newport, R.I.
The Desktop
Hit the ENTER Key for next


ProQuest Direct - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit
Address http://proquest.umi.com/pqdweb
Links
New Search
by word
for publication
PROQUEST Direct
RESULTS LIST | MARKED LIST | PREFERENCES
HELP ?
Select database
Continue
To BEGIN SEARCH "click" here.
Search all available databases
ALL databases
Includes all available information you have access to.
Default search
Search selected databases
PA Research II
PA Research II Newspapers Search The New York Times, Wall Street Journal, USA TODAY and Barron's
PA Research II Periodicals Find information on a wide range of topics including the arts, business, humanities, health, social sciences, sciences.
Continue
Note:
May choose to reduce databases by selecting only the one that you desire.
Hit the ENTER Key for next slide
Internet zone


ProQuest Direct - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit
Address http://proquest.umi.com/pqdweb
Links
New Search
by word
for publication
PROQUEST Direct
RESULTS LIST | MARKED LIST | PREFERENCES
HELP ?
Search by word—basic
Enter a word or phrase.
BASIC ADVANCED
Information Warfare
Search
Current (1997 - Present)
Backfile
Search full text of Articles
Search Wizard
Subject List
Your Recent Searches
Searching: ALL databases
Select Database
UMI Copyright © 1998 UMI Company. All rights reserved Terms and Conditions
Search Screen:
Example search using the subject "Information Warfare"
To Begin Search "click" here.
Hit the ENTER Key for next slide
Internet zone

ProQuest Direct - Microsoft Internet Explorer
File Edit View Go Favorites Help
New Search
by word
for publication
PROQUEST Direct
RESULTS LIST | MARKED LIST | PREFERENCES
HELP
Results list
ALL databases
SEARCH
RESULTS
At least 50 articles matched your search.
Narrow your search
1. Information jump takes nuclear bomb's place; The Current Digest of the Post - Soviet Press Koretsky, Aleksandr; Jan 13, 1999
2. The Latest Arms-Control Pipe Dream; Wall Street Journal By Frank J. Gaffney Jr.; Jan 11, 1999
3. The digital reference; Armor Karl Gunzelman; Jan/Feb 1999
4. New ACM press books; Association for Computing Machinery. Communications of the ACM Anonymous; Dec 1998
5. Tactical deception in information warfare: A new paradigm for C4I; Journal of Electronic Defense Ronald K Newland; Dec 1998
6. The US transition to information warfare; Journal of Electronic Defense Edward Waltz; Dec 1998
7. The intelligence, surveillance, reconnaissance and target acquisition requirement--an overview; RUSI Journal Tony Mason; Dec 1998
8. Building information security layer by layer; United States Naval Institute. Proceedings J M McConnell; Dec 1998
9. Microsoft: A U.S. security threat; Computerworld Paul A Strassmann; Nov 30, 1998
BTG Unit Wins Part of Contract; Wall Street Journal Nov 17, 1998
Next
11-20
Scroll DOWN screen for more options
Article format key
Hit the ENTER Key for next slide
CITATION/ABSTRACT
FULL TEXT
TEXT+GRAPHICS
PAGE IMAGE
Internet zone


ProQuest Direct - Microsoft Internet Explorer
File Edit View Go Favorites Help
New Search
by word
for publication
PROQUEST Direct
RESULTS LIST | MARKED LIST | PREFERENCES
ACM Anonymous; Dec 1998
5. Tactical deception in information warfare: A new paradigm for C4I; Journal of Electronic Defense Ronald K Newland; Dec 1998
6. The US transition to information warfare; Journal of Electronic Defense Edward Waltz; Dec 1998
7. The intelligence, surveillance, reconnaissance and target acquisition requirement--an overview; RUSI Journal Tony Mason; Dec 1998
8. Building information security layer by layer; United States Naval Institute. Proceedings J M McConnell; Dec 1998
9. Microsoft: A U.S. security threat; Computerworld Paul A Strassmann; Nov 30, 1998
10. BTG Unit Wins Part of Contract; Wall Street Journal Nov 17, 1998
Next
11-20
Submit this search against backfile
View only Full Text
Click-on BLUE line to view this article
Click here to view next 10 articles
For Full Text articles only
To redo search using Backfile
Hit the ENTER Key for next slide
Enter a word or phrase.
BASIC ADVANCED
Information Warfare
Search
Current (1997 - Present)
Backfile
Search full text of Articles
Search Wizard
Subject List
Your Recent Searches
Searching: ALL databases
Select Database


ProQuest Direct - Microsoft Internet Explorer
File Edit View Go Favorites Help
PRINT Icon click to print copy of article
New Search
by word
for publication
RESULTS LIST | MARKED LIST | PREFERENCES
Article 8 of 50
NEXT ARTICLE
TO KEYWORD
EMAIL ARTICLE
PRINT ARTICLE
Mark article
Cite/Abstrac
Full Text
Text+Graph
Page Image
Publisher Ir
Building information security layer by layer
United States Naval Institute. Proceedings; Annapolis; Dec 1998; J M McConnell; Edward J Giorgio;
Volume: 124
Issue: 12
Start Page: 44-47
ISSN: 0041798X
Subject Terms: Armed forces
Risk management
Information technology
National security
Navy-US
ARTICLE SCREEN
Key Elements
Email article by placing email address in space, then click on BLUE border
Change Format to Page Image
management approach, the US Navy will rely on defense in depth to thwart
formation warfare attackers.
United States Naval Institute Dec 1998
[Headnote]
Using a risk-management approach, the Navy will rely on defense in depth to thwart potential information warfare attackers.
Hit the ENTER Key for next slide
Recent naval initiatives-Information Technology for the 21st Century (IT-21), network-centric warfare, and the Navy virtual intranet (NVI)-provide a framework for the information-management infrastructure over which naval operations will be conducted. The foundation on which they are built, information superiority,

Adobe

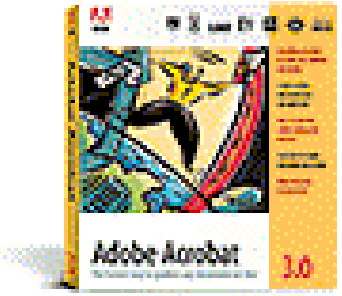
Acrobat 3.02

Acrobat® Reader 3.0

The free viewing companion to Adobe Acrobat 3.0

Use Acrobat Reader 3.0 to View, Print, Navigate, Search

Use Adobe® Acrobat 3.0 to View, Print, Navigate, Search, Create Adobe PDF files, Scan, OCR, Annotate, Add links, Index, Create PDF Forms, Create Dynamic Controls



Acrobat 3.0 is the fastest way to publish any document on-line

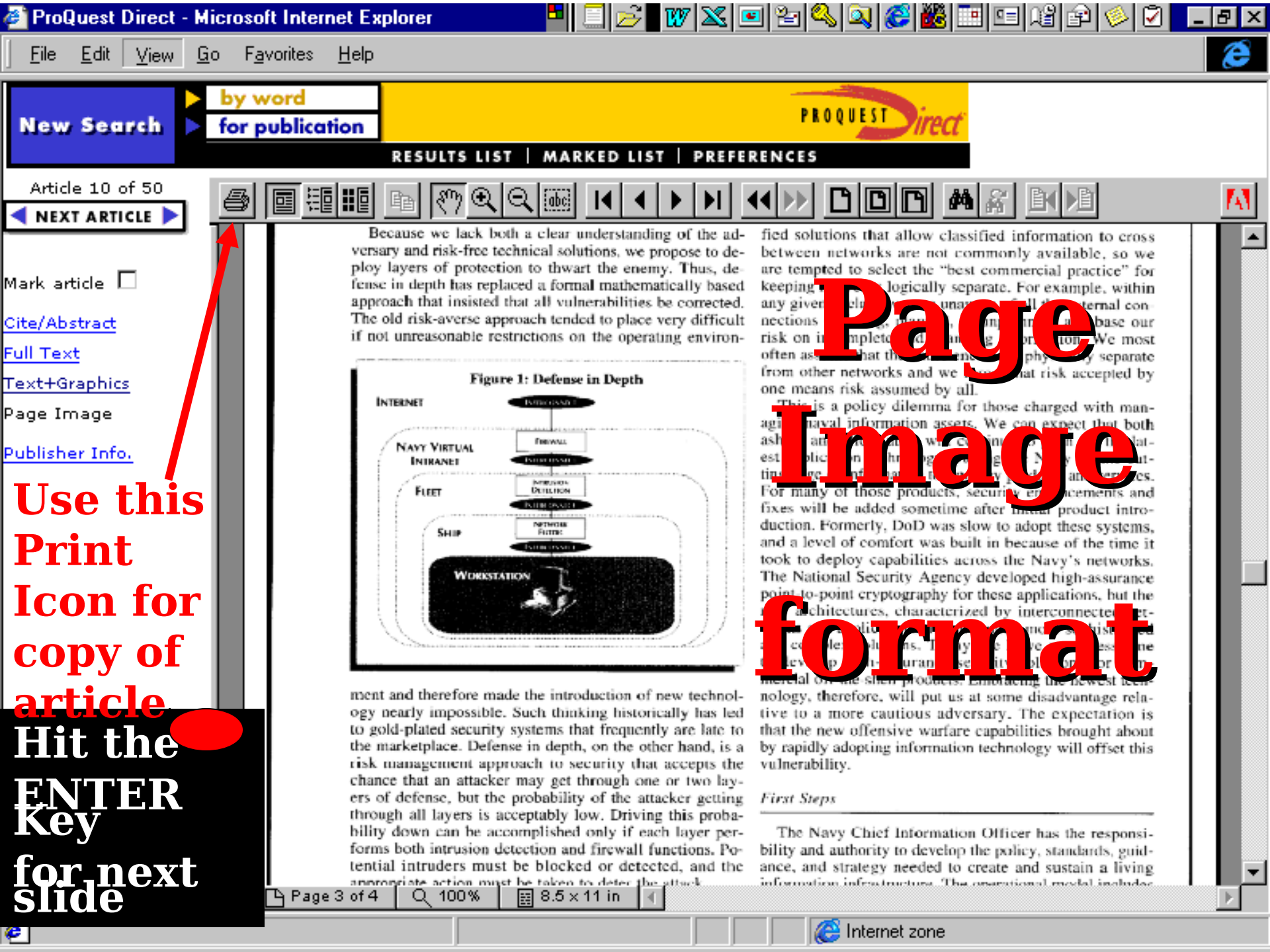
Open Acrobat.pdf to find out more about Adobe Acrobat 3.0.

Visit us on the world wide web at http://www.adobe.com/acrobat/.

Hit the ENTER Key for next slide

©1987-1997 Adobe Systems Incorporated. All rights reserved. Adobe, Acrobat, and the Acrobat logo are trademarks of Adobe Systems Incorporated which may be registered in certain jurisdictions.

When Page Image format selected, Acrobat Reader will automatically open and allow you to



Because we lack both a clear understanding of the adversary and risk-free technical solutions, we propose to deploy layers of protection to thwart the enemy. Thus, defense in depth has replaced a formal mathematically based approach that insisted that all vulnerabilities be corrected. The old risk-averse approach tended to place very difficult if not unreasonable restrictions on the operating environment and therefore made the introduction of new technology nearly impossible. Such thinking historically has led to gold-plated security systems that frequently are late to the marketplace. Defense in depth, on the other hand, is a risk management approach to security that accepts the chance that an attacker may get through one or two layers of defense, but the probability of the attacker getting through all layers is acceptably low. Driving this probability down can be accomplished only if each layer performs both intrusion detection and firewall functions. Potential intruders must be blocked or detected, and the appropriate action must be taken to deter the attack.

Figure 1: Defense in Depth

fied solutions that allow classified information to cross between networks are not commonly available, so we are tempted to select the "best commercial practice" for keeping [illegible] logically separate. For example, within any given [illegible] internal connections [illegible] base our risk on i[illegible] We most often as[illegible] separate from other networks and we [illegible] that risk accepted by one means risk assumed by all.

This is a policy dilemma for those charged with managi[illegible] naval information assets. We can expect that both ash[illegible] latest [illegible] For many of those products, security enhancements and fixes will be added sometime after initial product introduction. Formerly, DoD was slow to adopt these systems, and a level of comfort was built in because of the time it took to deploy capabilities across the Navy's networks. The National Security Agency developed high-assurance point-to-point cryptography for these applications, but the [illegible] architectures, characterized by interconnected [illegible] nology, therefore, will put us at some disadvantage relative to a more cautious adversary. The expectation is that the new offensive warfare capabilities brought about by rapidly adopting information technology will offset this vulnerability.

First Steps

The Navy Chief Information Officer has the responsibility and authority to develop the policy, standards, guidance, and strategy needed to create and sustain a living information infrastructure. The operational model includes

Page Image format

Use this Print Icon for copy of article

Hit the ENTER Key for next slide

ProQuest Direct - Microsoft Internet Explorer

File Edit View Go Favorites Help

New Search | by word | for publication

PROQUEST Direct

RESULTS LIST | MARKED LIST | PREFERENCES

Article 10 of 50

NEXT ARTICLE

TO KEYWORD

EMAIL ARTICLE

PRINT ARTICLE

Mark article

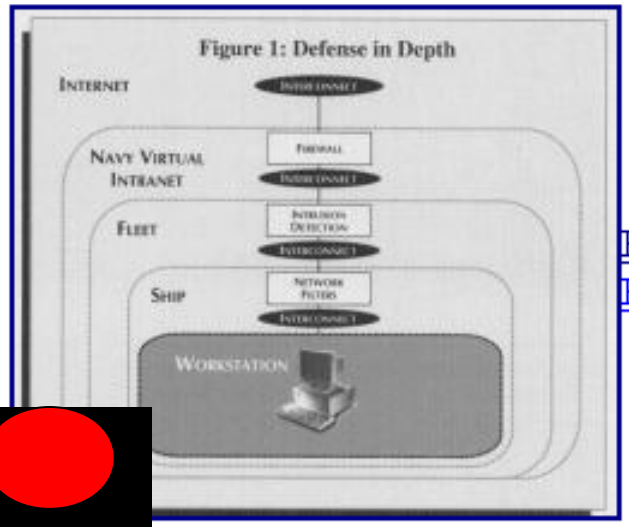
Cite/Abstract

Full Text

Text+Graphics

Page Image

hand, is a risk management approach to security that accepts the chance that an attacker may get through one or two layers of defense, but the probability of the attacker getting through all layers is acceptably low. Driving this probability down can be accomplished only if each layer performs both intrusion detection and firewall functions. Potential intruders must be blocked or detected, and the appropriate action must be taken to deter the attack.



Enlarge 200%
Enlarge 400%

Figure 1:

Full Text + Graphics format

depth and risk management are two pillars of current Navy policy, but measuring risk needs to reasoned approach that incorporates the identity of the adversary, intent, capabilities, and Navy ties. The global village model of where the Internet is taking us leaves little doubt that our will have the prerequisite exposure to develop the needed skills and experience. So we are left in um, trying to estimate the amount of risk we actually are taking. This, coupled with the diversity of

Hit the ENTER Key to return to NWC Library homepage.

Internet zone